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2	54	extracellular adj matrix and	USPAT;	2004/09/20
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藤EAST Browser - L2: (54) EXTRACELLULA | US 5888222 A | Tag: S | Doc: 3/54 (SORTED) | Format : KWIC Flle Edit View Tools Window Help Document ID KSo Lasue Da Pag Tit US-PAT-NO: US 5108438 A U 19920428 11 Prosthe U 19931102 11 Method 5258043 U 19990330 18 Interve DOCUMENT-IDENTIFIER: 5888222 A US 5888222 A 5964807 A U 19991012 **See image for Certificate of Correction** Composi US 5984967 A 19991116 23 Osteoge * 19991123 20 Bone qr 20000125 26 Isolati 20010605 9 Composi US 5989289 A US 6017760 A TITLE: Intervertebral spacers US 6240926 B1 US 20010016772 US 20010020476 20010823 20 20010913 10 20020122 4 20020205 4 Tissue KWIC ----Compos US 6340369 B1 US 6344058 B1 4 4 10 4 Treatir Treatin 20020205 4 20020221 10 20020305 4 20020416 55 20020627 9 20020716 4 20020723 16 Detailed Description Text - DETX (21): US 20020022883 US 6352557 B1 US 6371988 B1 Tissue The BMPs are preferably introduced into the chamber 30 with a suitable U **-**>| Treatin carrier 74 as shown in FIG. 8. The carrier may be any suitable medium capable Bone ar of delivering the proteins to the implant. Such carriers are well known and บร 20020082698 U Method commercially available. One preferred carrier is an absorbable collagen sponge US 6419702 B1 Treatin as shown in FIG. 8 marketed by Integra LifeSciences Corporation under the trade US 6423095 B1 US 6428576 B1 US 20020107575 Interve lus U U U name Helistat.RTM. Absorbable Collagen Hemostatic Agent. Another preferred 20020806 15 20020808 9 System Vertebr carrier is an open cell polylactic acid polymer (OPLA). Other potential 20020808 9 20020912 3 20020912 3 20020919 3 20020924 4 US 20020128718 Method matrices for the compositions may be biodegradable and chemically defined US 20020128630 US 20020133231 calcium sulfate, tricalcium phosphate (TCP), hydroxyapatite (HA), biphasic TCP/HA ceramic, polylactic acids and polyanhydrides. Other potential materials Method 20020919 20020924 20021017 Treatin US 20020133231 US 6454804 B1 US 20020151981 US 20020156533 US 20020156532 US 20020198599 US 20030009222 are biodegradable and biologically well defined, such as bone or dermal Enginee Transpl 20020924 4 20021017 4 20021024 3 20021024 3 20021226 14 20030109 14 Ü collagen. Further matrices are comprised of pure proteins or extracts matrix components. The osteoinductive material may also be an admixture of the osteoinductive cytokine and a polymeric acrylic ester carrier. The polymeric acrylic ester can be polymethylmethacrylic. The carriers are preferably provided in strips or sheets which may be folded to conform to the chamber 30. Natural Supplem System Ü Synthet US 20030003306 US 20030033017 US 6533819 B1 US 20030060886 US 20030069639 20030130 22 20030213 34 Vertebr 30 Biodegr 20030318 68 20030327 15 Injecta Current US Original Classification - CCOR (1): Interve 623/17.16 20030410 19 20030527 8 Methods 34 US 6569442 B2 Prepara US 20030100948 US 20030114930 US 6613091 B1 20030529 26 20030619 10 20030902 35 Connect Apparat Spinal U U US 20030180266 20030925 Methods US 20030195629 20031016 Bone qr US 6645247 B2 US 6648920 B2 20031111 20031118 Supplem U U 1 Natural US 6648919 B2 20031118 Transpl US 6648918 B2 20031118 Treatin 20031120 12 20031127 15 US 20030216812 US 20030220692 U Vascula (D) Prepara 20040019381 20040129 13 Spinal บร 20040034427 20040219 Bioart 8.... US 20040049270 US 6719798 B2 US 20040083002 20040311 U Bone qr Ņ U 20040413 20040429 Vertebr

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Brief Summary Text - BSTX (10):

Although transplantation of living cells risks rejection by graft host reaction, this invention broadly recognizes that transplantation of the extracellular matrix of the nucleus pulposus is unlikely to incite a graft host reaction. In the preferred embodiment, autograft nucleus pulposus cells are harvested, cultured, then added to nucleus pulposus extracellular matrix obtained from recently deceased humans or animals. The combined nucleus pulposus material is then introduced into the injured or diseased disc.

Detailed Description Text - DETX (2):

Broadly according to the method of this invention, autograft nucleus pulposus cells are harvested, cultured, added to nucleus pulposus extracellular matrix material, then injected into the injured or diseased disc. The nucleus pulposus cells and extracellulac matrix are preferably harvested from a live human, though recently deceased human or animal donors may alternatively be Depending upon the extent of the harvest, the recipient may function at used. least in part as a donor, or the tissues from others, including fetal sources, may be used, preferably having a familial relationship to minimize or avoid the need for immunosuppressive substances. Guidelines for tissue procurement including surgical technique of removal, number of hours between death of the donor and tissue procurement, and testing of the donor for infectious disease, are well described.

Detailed Description Text - DETX (3):

Following nucleus pulposus harvest, the tissue is processed to kill the living cells. Care is taken to preserve the extracellular matrix. Guideline for processing the harvested nucleus pulposis as described are well known to those skilled in the art. For example, the tissue could be frozen and thawed.

Detailed Description Text - DETX (4):

Autologous nucleus pulposus chondrocyte like cells are obtained by aspiration or biopsy of healthy discs of the patient. The harvested nucleus pulposus cells are isolated and cultured using standard techniques. The harvested sterile nucleus pulposus is morselized and washed with phosphate buffered saline. The cells are released from the extracellular matrix with 0.2% clostridial collagenase (Worthington CLS II, 140u/mg) and agitated. See Klagsburn, "Methods in Enzymology, Vol. VII. The resulting suspension is filtered with a 153.mu.g nylon sieve (Tetko, Elmford, N.Y.).

Detailed Description Text - DETX (7):

The living cells from cell culture are implanted into the donor extracellular matrix to form a living nucleus pulposus. In the preferred embodiment, the donor extracellelar matrix is morselized. Morselization of the